

Datasheet



SDU 404 Safety Unit

Part#: 1006418

Rev. March 4, 2016

Interfaces

Section	Ch.	Cond.	Min	Typ.	Max	Unit	Comment
Power Supply	1	@ 24 VDC	18 200	24 300	32 600	VDC mA	Max ripple 10% without exceeding Min and Max values.
Switch Inputs	4	-	-	24	-	VDC	Opto-coupled
Tacho Input	1	-	0.1 4	5 32	10 32	kHz Vpp	Magnetic Pickup
Shutdown Relay	-	@ 24 VDC	-	-	1.8	A	
All other relays	-	@ 24 VDC	-	-	0.5	A	
SDU Link Connection	1	-	-	19200	-	baud	DCU Connection

Measurements and Weight

Section	Weight	Width	Height	Depth	Unit	Comment
Size	-	101	105	52	mm	Including connectors
Weight	0.4	-	-	-	kg	

Environmental

Section	Condition	Min	Typ.	Max	Unit	Comment
Vibration	Operational	-	0.7	-	g	IEC 60068-2-6 Fc
Operating Temperature	Operational	5	-	70	C	IEC 60068-2-1 Ab/Ad
Storage Temperature	Not powered	-30	-	+80	C	
Low Temperature	Operational	5	-	-	C	IEC 60068-2-1 Ab/Ad
	Duration	-	-	2	hours	
IP-rating	-	-	30	-	-	
High Voltage	Not powered	-	-	548 1	Vrms minute	Voltage applied between <i>clamped</i> supply and shield.
Fast low-energy Transients/bursts	Operational	-	-	- 2 1	- kV kV	IEC 61000-4-4 24 VDC supply lines, 5kHz Signal lines, 5kHz
Slow high-energy Transients/surges	Operational	-	-	- 0.5 1	- kV kV	IEC 61000-4-5 24 VDC supply lines Signal lines
Electrostatic Discharge, ESD	Operational	-	-	- 8 6	- kV kV	IEC 61000-4-2 Air Contact

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EMC

Section	Condition	Min	Typ	Max	Unit	Comment
Conducted emission	Operational	-	-	-	-	CISPR 16-1-1 / 16-1-2 / 16-2-1
						Quasi-peak at 3m:
		150	-	300	kHz	80-50 dB μ V/m
Radiated emission	Operational	0.3	-	300	MHz	50-34 dB μ V/m
		30	-	156	MHz	54 dB μ V/m
		156	-	165	MHz	24 dB μ V/m
		165	-	2000	MHz	54 dB μ V/m
Radio frequency Immunity	Operational	-	-	10	Vrms	IEC 61000-4-6
Radiated electric Immunity	Operational	80	-	2000	MHz	IEC 61000-4-3 10 V/m, 80% AM, 1kHz

Validity of Information

Data valid at revision date. Auto-Maskin reserves the right to make improvements and changes of specification at any time.

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